

Asbestos and Lead-Based Paint Inspection

3760 & 3678 Park Avenue
Doraville, DeKalb County, Georgia

May 2018

Prepared for:
City of Doraville Downtown Development Authority
EPA Cooperative Agreement BF-00D48116-0



Asbestos and Lead-Based Paint Inspection

Prepared for: City of Doraville
Downtown Development Authority
3725 Park Avenue
Doraville, Georgia 30340
EPA Cooperative Agreement BF-00D48116-0



Project Name: **Asbestos and Lead-Based Paint Inspection**
3760 & 3768 Park Avenue
Doraville, DeKalb County, Georgia

Date: May 22, 2018

Table of Contents

Executive Summary	1
1 Introduction	3
1.1 Purpose	3
1.2 Site History	3
1.3 Property Descriptions	3
1.4 Previous Assessments	3
1.5 Limitations / Exceptions of Assessment	3
1.6 Special Terms and Conditions (User Reliance)	4
2 Sampling Activities	5
2.1 Comprehensive Asbestos Survey	5
2.2 Limited Lead-Based Paint Survey	5
3 Analytical Results	7
3.1 Asbestos-Containing Materials	7
3.2 Lead-Based Paint	8
4 Conclusions/Recommendations	9

Figures

1	Site Boundary Map
2	Tax Map
3a-c	Building Diagrams with Asbestos and Lead-Based Paint Sample and Material Locations

Tables

1a-b	Asbestos Sample Summary
2a-b	Paint Chip Sample Summary

Appendices

A	Photographic Log
B	Laboratory Analytical Reports
C	Inspector Accreditations

Executive Summary

Cardno has completed a comprehensive Asbestos and limited Lead-Based Paint Inspection of the property located at 3760 and 3768 Park Avenue in Doraville, DeKalb County, Georgia. The study property is herein referred to as "the subject site/property" or "the site" (as generally depicted in **Figures 1 and 2**) and consists of approximately 1.75 acre tract developed with two vacant commercial buildings currently owned by the City of Doraville.

The subject site is currently being evaluated for redevelopment. The subject site consists of approximately 1.75 acres of developed land, including two vacant commercial buildings. The building at 3760 Park Avenue is a two-story building totaling approximately 8,000 square feet. The building at 3768 Park Avenue is a former residential building that is approximately 1,100 square foot building with a basement. The remaining land is paved parking areas or landscaped grass.

This assessment was performed to satisfy the requirements of the Client (City of Doraville and its Downtown Development Authority) and their assigns (including the prospective purchaser) with respect to potential environmental impairment and liabilities associated with the property due to contamination by hazardous substances. This assessment was completed under the City of Doraville's Environmental Protection Agency (EPA) Assessment Grant. All sampling activities were conducted under the EPA approved Generic Quality Assurance Project Plan (SSQAPP) dated November 30, 2017.

More specifically, the asbestos survey and a limited lead-based paint (LBP) survey, included the collection of sixty-six (66) building material samples to be analyzed for asbestos containing materials (ACMs) and twenty-three (23) paint chip samples to be analyzed for LBP.

In summary,

- **Asbestos:** Comparison of the laboratory analytical results to the Occupational Safety and Health Administration's (OSHA) for building materials containing >1% asbestos revealed:

3760 Park Avenue

- Penetration pipe mastic located throughout the roof, totaling approximately 75 linear feet.
- Silver HVAC mastic located on the roof, totaling approximately 200 square-feet
- Gray exterior door caulk, located on approximately three exterior front doors and totaling approximately 100 linear feet.
- Various vinyl and ceramic floor tiles and associated black mastic located throughout the interior of the building, totaling approximately 4,000 square feet.
- Black sink undercoating. This material was only identified on one sink located in the first floor kitchen.

3768 Park Avenue

- Floor tile with associated black mastic located throughout the entire first floor, totaling approximately 1,000 square feet.

- Penetration pipe mastic located on the roof, totaling approximately 25 linear feet.
- **Lead-Based Paint:** Comparison of the laboratory analytical results to the Environmental Protection Agency (EPA) and Housing and Urban Development (HUD) for paint chips identified the following materials as lead-based paint:

3760 Park Avenue

- Beige paint on wood exterior windows and window frames. This material was identified on approximately 12 windows totaling approximate 100 square feet.
- Blue paint on the exterior wood doors and door frames. This material was identified on approximately five doors totaling approximately 200 square feet.

3768 Park Avenue

- White/green paint on the plaster ceiling above the ceiling tiles. This material was located throughout the interior first floor, totaling approximately 1,100 square feet.
- White paint on exterior wood windows and window frames. This material was identified on approximately seven windows totaling approximately 100 square feet.
- White paint on the wood framing underneath the existing exterior siding. This material is likely located throughout the entire exterior, or approximately 1,500 square feet.

Based on the results of the Phase II ESA, Cardno recommends:

- The identified asbestos containing material appears to be in good condition with no significant deterioration or damages. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor. If the ACM is to be left in place, an Operation and Maintenance (O&M) plan should be implemented regarding the handling of the identified ACM.
- The identified lead-based paint appeared to be overall intact and in fair condition with the exception of the white paint on the wood framing of 3768 Park Avenue. This material is mostly encapsulated behind siding felt and wood siding. As the buildings are not a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition.

If the LBP is to be disturbed during renovation or demolition, depending on the extent of the disturbance, the LBP can be encapsulated, enclosed, or abated. All activity that disturbs LBP should be conducted by a licensed LBP renovation, repair, or paint (RRP) firm or a qualified LBP abatement contractor.

As the property is anticipated to be demolished, due to the presence of lead on various painted surfaces, toxicity characteristic leachate procedure (TCLP) analysis for lead should be conducted on any construction debris to determine if the material should be characterized as a hazardous waste prior to disposal.

1 Introduction

1.1 Purpose

This assessment was completed under the City of Doraville's Environmental Protection Agency (EPA) Assessment Grant. All sampling activities were conducted under the EPA approved Generic Quality Assurance Project Plan (SSQAPP) dated November 30, 2017.

1.2 Site History

The subject site historically was identified as undeveloped land until the development of one commercial building at 3760 Park Avenue in the late 1950s and the building 3768 Park Avenue in the 1960s. Both buildings were for municipal use, including the Doraville Health Center and Library since their development. Both buildings were reportedly vacated around 2016.

1.3 Property Descriptions

The site is an approximately 1.75 acre tract which is included within a larger 6.98 acre parent parcel owned by the City of Doraville and with tax parcel ID #18 311 06 001.

The vacant commercial building located at 3760 Park Avenue is a two-story building with concrete block unit (CMU) and wood framing with wood siding on a concrete slab. The interior of the building is drywall and CMU walling and drop ceiling tiles over wood framing and plaster ceiling. The flooring consists of carpet, ceramic tiles, vinyl floor tiles, and bare concrete. The roof is a built up on the first floor, with a pitched second story.

The vacant commercial building located at 3760 Park Avenue is a one-story wood framed building with wood siding and a pitched roof. The interior spaces contain wood paneling and drop ceiling tiles over plaster ceiling. The building supports a basement with a concrete floor and CMU walls.

The remaining portions of the subject site are composed of paved parking areas to the west and south portions and landscaped grass to the east and north portions.

1.4 Previous Assessments

According to the City of Doraville, no prior asbestos or lead-based paint assessments have been conducted on the on-site buildings.

1.5 Limitations / Exceptions of Assessment

A comprehensive asbestos and limited lead-based paint inspection was completed by Cardno to identify potential ACM and LBP. Any suspect building materials not sampled and analyzed for asbestos during this investigation should be treated as presumed asbestos containing materials (PACM) until further sampling by a certified inspector indicates otherwise. Any suspect LBP not sampled and analyzed for lead during this investigations should be treated as LBP until further sampling by a certified inspector indicates otherwise.

No other warranty is expressed or implied.

1.6 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by the entity(s) identified in the Executive Summary of this report as the Client, as well as any of its affiliates and their respective successors and assigns, in connection with a commercial real estate transaction involving the property, and in accordance with the terms and conditions in place between Cardno and the Client for this project. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Cardno is at the sole risk and expense of such third party.

Cardno makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

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2 Sampling Activities

2.1 Comprehensive Asbestos Survey

A comprehensive asbestos inspection was conducted on April 26, 2018. The inspection was performed by Cardno's Douglas Strait, P.E., a Georgia licensed and accredited asbestos inspector, in accordance with the Asbestos Hazardous Emergency Response Act (AHERA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA). Mr. Strait's accreditation certificate is included as **Appendix C**. During the inspection, Mr. Strait was provided assistance by Cardno's Ashton Smithwick, Geologist.

In accordance with National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 61-Subpart M, paragraph 145, all asbestos containing materials (ACMs) must be identified and removed prior to disturbance, either during a renovation or demolition. ACM is defined by OSHA as materials that contain greater than 1% asbestos fibers.

The ACM inspection included a visual inspection of all accessible interior and exterior areas of the on-site building, specifically in correlation with the previous Contour investigation. Destructive testing was performed to verify the existence and extent of ACM in all building materials. This inspection was performed in accordance with AHERA and ASHARA protocols.

All suspect materials, or homogeneous areas (HAs) were visually identified. Each HA was visually assess for condition, friability, and quantity. A summary of all bulk samples collected is included as **Table 1**.

During the inspection, Cardno collected sixty-six (66) samples from thirty-four (34) different HAs. All bulk samples were collected and stored in appropriate sample containers, labeled, and delivered to AES in Atlanta, Georgia. AES analyzed all samples using Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116. This laboratory is accredited by the National Institute of Standards of Technology (NIST), and is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP). A copy of the analytical results including the laboratory certification is included in **Attachment B**.

2.2 Limited Lead-Based Paint Survey

A limited lead-based paint (LBP) inspection was conducted on April 26, 2018 by Cardno's Douglas Strait, a Georgia and EPA-accredited LBP inspector. All testing was completed in accordance with applicable HUD, state, and federal regulations regarding LBP inspections. Mr. Strait's pertinent training and licensing certificates are included as **Appendix C**. Mr. Strait was provided assistance by Cardno's William Smithwick, Geologist. No previous LBP sampling information was provided by the client or the property owner.

The LBP testing was performed in accordance with the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Painted surfaces were tested by collected paint chips of various painted surfaces throughout the interior and exterior of the building. LBP is defined by EPA as containing greater than 0.5% lead in painted materials.

During the inspection, Cardno collected twenty-three (23) paint chips samples from unique locations throughout the interior and exterior of the on-site building. A summary of all paint chip samples collected is included as **Tables 2a and 2b**.

The paint chip samples were collected into appropriate containers, labeled, and delivered to AES in Atlanta, Georgia. The laboratory analyzed the samples using flame atomic absorption spectrometry (FAAS) via National Institute for Occupational Safety and Health (NIOSH) Method 7082. This laboratory is accredited by the NIST program, and is recognized under the NVLAP. A copy of the analytical results included the laboratory certification is included in **Appendix B**.

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3 Analytical Results

3.1 Asbestos-Containing Materials

Based on the analytical results of suspect ACM samples conducted during this comprehensive inspection, the following materials were identified as asbestos-containing:

- 3760 Park Avenue
 - Penetration pipe mastic located throughout the roof
 - Silver HVAC mastic located on the roof
 - Gray exterior door caulk, located on approximately three exterior front doors and totaling approximately 100 linear feet.
 - Various vinyl and ceramic floor tiles and associated black mastic located throughout the interior of the building, totaling approximately 4,000 square feet.
 - Black sink undercoating. This material was only identified on one sink located in the first floor kitchen.
- 3768 Park Avenue
 - Floor tile and associated black mastic located throughout the entire first floor, totaling approximately 1,000 square feet.
 - Penetration pipe mastic located on the roof, totaling approximately 25 linear feet.

The penetration pipe mastic located at 3760 Park Avenue consisted of approximately 75 linear feet and at 3768 Park Avenue approximately 25 linear feet. This material is located on a pipes extending from the roof of each building, and appeared to be in good condition. The penetration pipe mastic is considered a non-friable miscellaneous Category I material.

The silver HVAC mastic is located along the HVAC handling units located on the lower roof of 3760 Park Avenue and consists of approximately 200 square feet. This material appears to be in good condition, and is considered a non-friable miscellaneous Category I material.

The grey exterior door caulk is located along three front doors of 3760 Park Avenue and consists of approximately 100 linear feet. This material appears to be in good condition, and is considered a non-friable miscellaneous Category II material.

The black sink undercoating was identified on one sink located in the kitchen of 3760 Park Avenue. This sink undercoating is in good condition and is considered a non-friable miscellaneous Category II material.

Various floor tile and associated black mastic was located throughout both 3760 and 3768 Park Avenue. At 3760 Park Avenue, four vinyl floor tiles were identified as ACM, and five floor tiles and ceramic tiles contained black mastic identified as ACM. Overall, the floor tile and associated black mastic totaled approximately 4,000 square feet. At 3768 Park Avenue, the floor tile and associated black mastic totaled approximately 1,000 square feet. All floor tile and associated black mastic were in good condition, and are considered non-friable miscellaneous Category I materials.

Photos of some of the identified ACMs are included as **Attachment A**.

The laboratory report is included as **Attachment C** with results summarized in **Tables 1a and 1b**.

3.2 Lead-Based Paint

In accordance with EPA, any paint containing 0.5% by weight of lead is categorized as containing lead. Based on the paint chip sampling results, the following painted surface tested positive for lead-based paint:

- 3760 Park Ave
 - Beige paint on wood exterior windows and window frames. This material was identified on approximately 12 windows totaling approximate 100 square feet.
 - Blue paint on the exterior wood doors and door frames. This material was identified on approximately five doors totaling approximately 200 square feet.
- 3768 Park Ave
 - White/green paint on the plaster ceiling above the ceiling tiles. This material was located throughout the interior first floor, totaling approximately 1,100 square feet.
 - White paint on exterior wood windows and window frames. This material was identified on approximately seven windows totaling approximately 100 square feet.
 - White paint on the wood framing underneath the existing exterior siding. This material is likely located throughout the entire exterior, or approximately 1,500 square feet.

The identified paint appeared to be intact with the exception of the white paint behind the exterior siding and felt. This paint is in poor condition with moderate deterioration; however, this material appears to be stabilized behind the exterior siding and felt.

Photos of some of the identified LBPs are included as **Attachment A**.

The laboratory report is included as **Appendix B**.

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4 Conclusions/Recommendations

Based on the results of this Phase II ESA:

- The identified asbestos containing material appears to be in good condition with no significant deterioration or damages. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor. If the ACM is to be left in place, an Operation and Maintenance (O&M) plan should be implemented regarding the handling of the identified ACM.
- The identified lead-based paint appeared to be overall intact and in fair condition with the exception of the white paint on the wood framing of 3768 Park Avenue. This material is mostly encapsulated behind siding felt and wood siding. As the buildings are not a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition. If the LBP is to be disturbed during renovation or demolition, depending on the extent of the disturbance, the LBP can be encapsulated, enclosed, or abated. All activity that disturbs LBP should be conducted by a licensed LBP renovation, repair, or paint (RRP) firm or a qualified LBP abatement contractor.

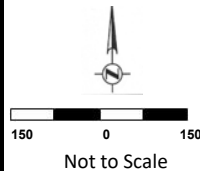
As the property is anticipated to be demolished, due to the presence of lead on various painted surfaces, toxicity characteristic leachate procedure (TCLP) analysis for lead should be conducted on any construction debris to determine if the material should be characterized as a hazardous waste prior to disposal.

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Figures

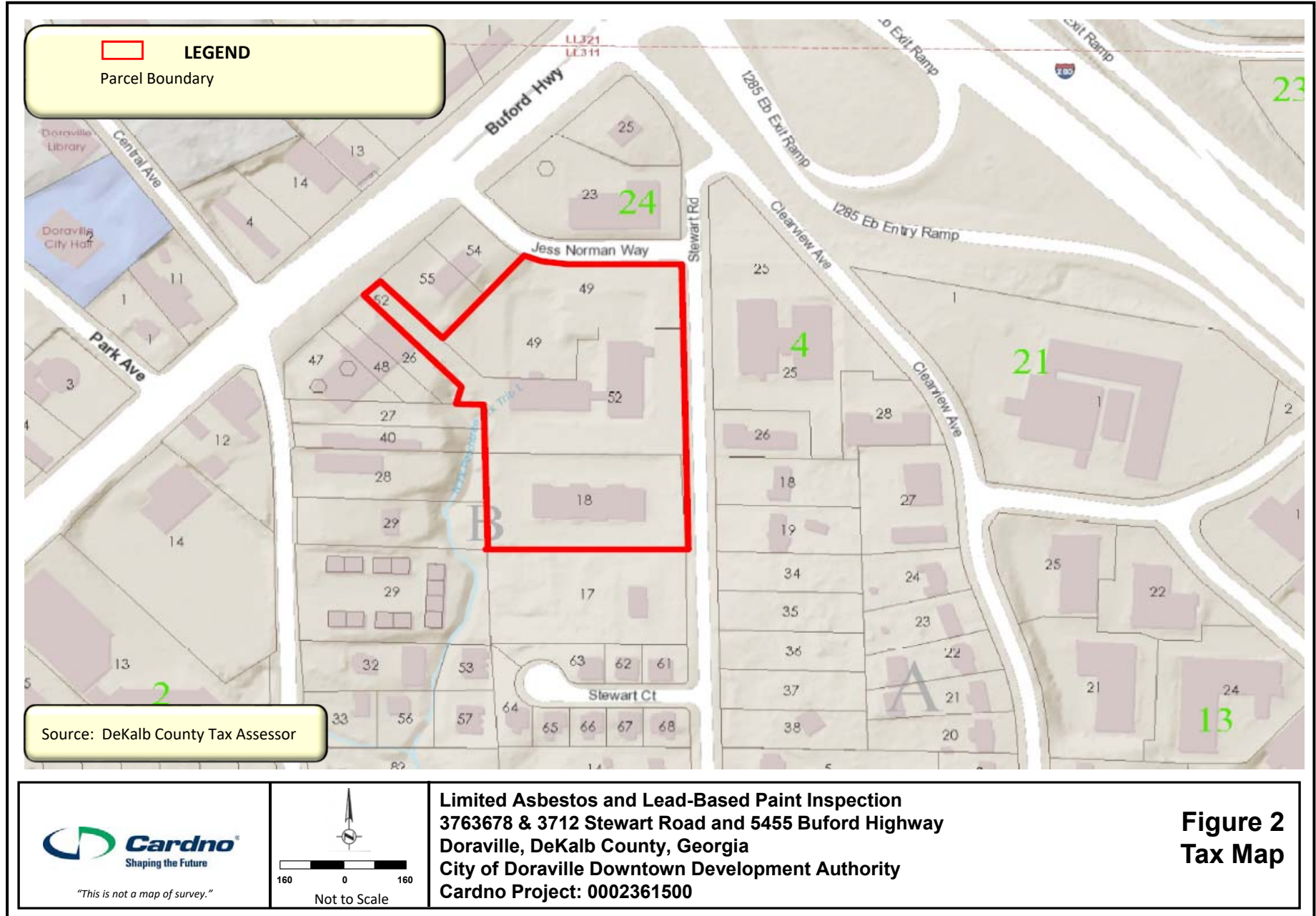


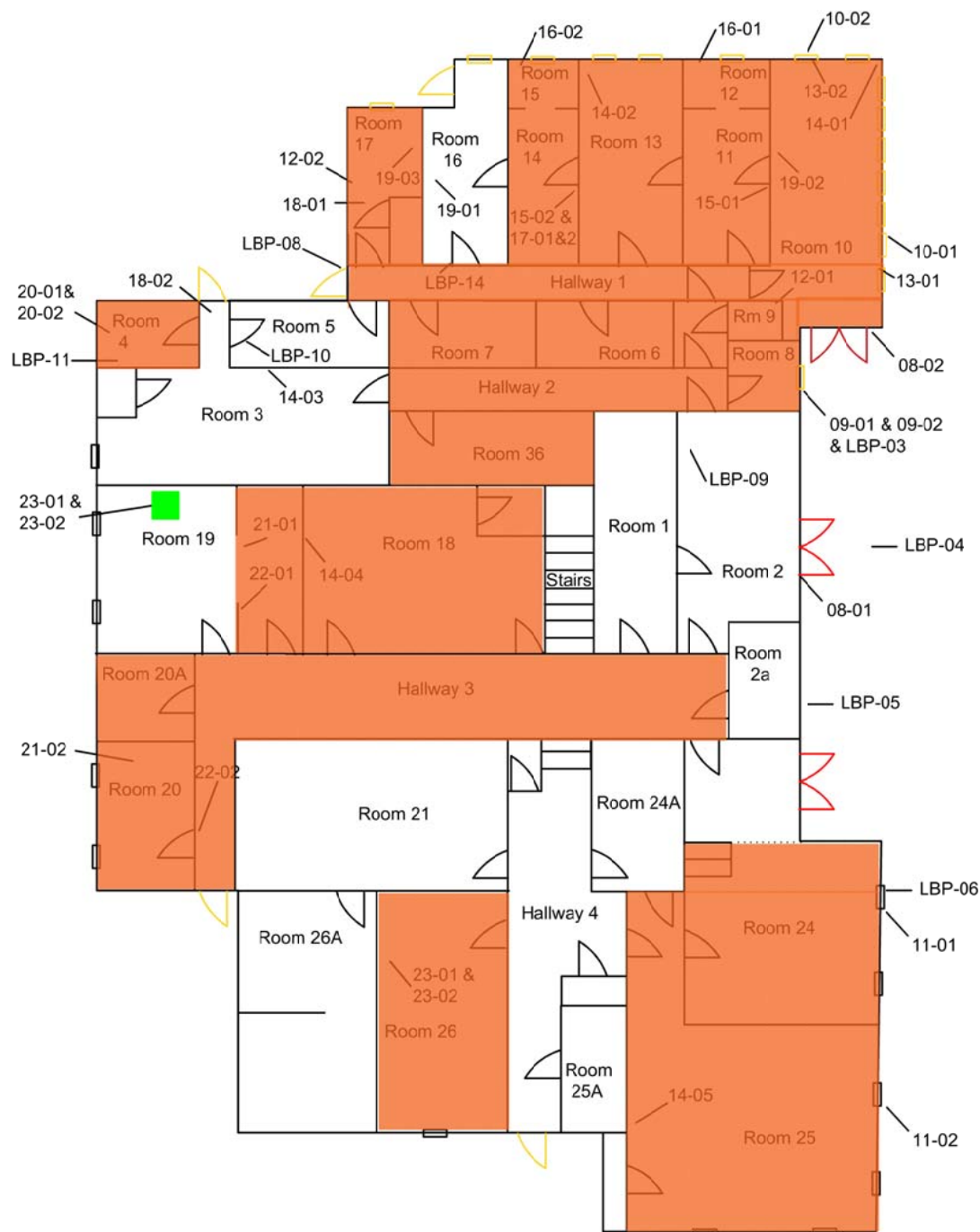
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Limited Asbestos and Lead-Based Paint Inspection
3678 & 3712 Stewart Road and 5455 Buford Highway
Doraville, DeKalb County, Georgia
City of Doraville Downtown Development Authority
Cardno Project: 0002361500

Figure 1
Site Boundary Map





**Figure 6c - 3760 Park Avenue, 1st Floor
Asbestos and Lead-Based Paint Sample
and Material Location Map**

Phase I ESA
3760 & 3768 Park Avenue
Doraville, DeKalb County, Georgia
City of College Park Downtown Development Authority
Cardno Project: 000240400

Key	
01-01 - Asbestos Sample Location	
LBP-01 - Lead-Based Paint Sample Location	
	- Confirmed ACM Floor tile and mastic
	- Confirmed ACM door caulking
	- Confirmed ACM sink undercoating
	- Confirmed LBP
*Roof samples and materials not depicted	





**Figure 6c - 3760 Park Avenue, 2nd Floor
Asbestos and Lead-Based Paint Sample
and Material Location Map**

Phase I ESA
3760 & 3768 Park Avenue
Doraville, DeKalb County, Georgia
City of College Park Downtown Development Authority
Cardno Project: 000240400

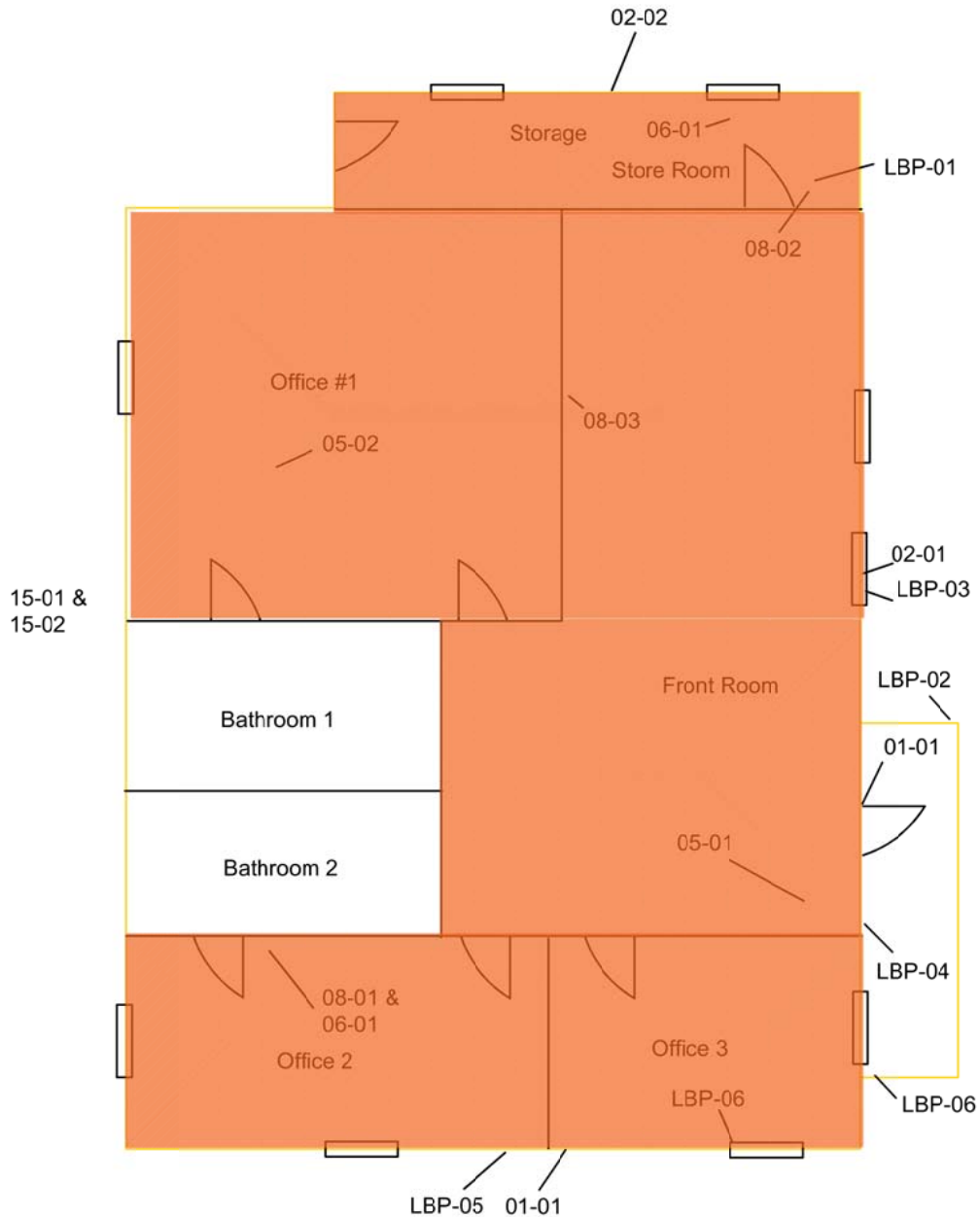
Key

01-01 - Asbestos Sample Location
LBP-01 - Lead-Based Paint Sample Location

- Confirmed ACM floor tile and mastic

*Roof samples not depicted





**Figure 6a - 3768 Park Avenue
Asbestos and Lead-Based Paint
Sample and Material Location Map**

Phase I ESA
3760 & 3768 Park Avenue
Doraville, DeKalb County, Georgia
City of College Park Downtown Development Authority
Cardno Project: 000240400

Key

01-01 - Asbestos Sample Location
LBP-01 - Lead-Based Paint Sample Location

- Confirmed ACM Floor tile
- Confirmed LBP Exterior Siding

*Basement and Roof samples not depicted



Tables

STEWART ROAD ASSEMBLAGE
3760 PARK AVENUE
DORAVILLE, GEORGIA

Table 1a: Summary of Bulk Sample Analysis and Assessment

HA ID	HA Description	Material Location	Percent and Type of Asbestos Detected ¹	Estimated Quantity	Type of ACM ²	Friability ³	Physical Condition
01-01	Roof shingles	Roof, 2nd story	NAD	N/A	N/A	NF	Good
01-02	Roof shingles	Roof, 2nd story	NAD	N/A	N/A	NF	Good
02-01	Roof felt under HA-01	Roof, 2nd story	NAD	N/A	N/A	NF	Good
02-02	Roof felt under HA-01	Roof, 2nd story	NAD	N/A	N/A	NF	Good
03-01	Roof HVAC mastic, black	Roof, 1st story	NAD	N/A	N/A	NF	Good
03-02	Roof HVAC mastic, black	Roof, 1st story	NAD	N/A	N/A	NF	Good
04-01	Penetration pipe mastic	Roof, both stories	3% CH	75 LF	Misc. Cat. I	NF	Good
04-02	Penetration pipe mastic	Roof, both stories	NAD	75 LF	Misc. Cat. I	NF	Good
05-01	Roof membrane	Roof, 1st story	NAD	N/A	N/A	NF	Good
05-02	Roof membrane	Roof, 1st story	NAD	N/A	N/A	NF	Good
06-01	Roof felt under HA-05	Roof, 1st story	NAD	N/A	N/A	NF	Good
06-02	Roof felt under HA-05	Roof, 1st story	NAD	N/A	N/A	NF	Good
07-01	Roof HVAC mastic, silver	Roof, 1st story	10% CH	250 SF	Misc. Cat. I	NF	Good
07-02	Roof HVAC mastic, silver	Roof, 1st story	10% CH	250 SF	Misc. Cat. I	NF	Good
08-01	Gray exterior door caulk	Exterior doors	NAD	100 LF	Misc. Cat. II	NF	Good
08-02	Gray exterior door caulk	Exterior doors	NAD	100 LF	Misc. Cat. II	NF	Good
09-01	Beige exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
09-02	Beige exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
10-01	Gray exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
10-02	Gray exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
11-01	Black exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
11-02	Black exterior window caulk	Exterior windows	NAD	N/A	N/A	NF	Good
12-01	Baseboard mastic, beige	Room 9	NAD	N/A	N/A	NF	Good
12-02	Baseboard mastic, beige	Room 17	NAD	N/A	N/A	NF	Good
13-01	White interior window glazing	Room 10	NAD	N/A	N/A	NF	Good
13-02	White interior window glazing	Room 10	NAD	N/A	N/A	NF	Good
14-01	Drywall and joint compound	Room 10, walling	NAD	N/A	N/A	F	Good
14-02	Drywall and joint compound	Room 13, ceiling	NAD	N/A	N/A	F	Good
14-03	Drywall and joint compound	Room 3, walling	NAD	N/A	N/A	F	Good
14-04	Drywall and joint compound	Room 18, walling	NAD	N/A	N/A	F	Good
14-05	Drywall and joint compound	Room 25, walling	NAD	N/A	N/A	F	Good
14-06	Drywall and joint compound	Room 30, 2nd floor, walling	NAD	N/A	N/A	F	Good

STEWART ROAD ASSEMBLAGE
3760 PARK AVENUE
DORAVILLE, GEORGIA

Table 1a: Summary of Bulk Sample Analysis and Assessment

HA ID	HA Description	Material Location	Percent and Type of Asbestos Detected ¹	Estimated Quantity	Type of ACM ²	Friability ³	Physical Condition
14-07	Drywall and joint compound	Room 33, 2nd floor, ceiling	NAD	N/A	N/A	F	Good
15-01	Gray floor tile under carpet	Room 11	2% CH	400 SF	Misc. Cat. I	NF	Good
15-02	Gray floor tile under carpet	Room 14	2% CH	400 SF	Misc. Cat. I	NF	Good
16-01	Ceramic flooring with mastic	Room 12	NAD	N/A	N/A	NF	Good
16-01A	Black mastic under ceramic flooring	Room 12	3% CH	4,000 SF*	Misc. Cat I	NF	Good
16-02	Ceramic flooring with mastic	Room 15	NAD	N/A	N/A	NF	Good
16-02A	Black mastic under ceramic flooring	Room 15	3% CH	4,000 SF*	Misc. Cat I	NF	Good
17-01	Floor tile under sample 15-02	Room 14	5% CH	160 SF	Misc. Cat I	NF	Good
17-01A	Black mastic under tile	Room 14	3% CH	4,000 SF*	Misc. Cat I	NF	Good
17-02	Floor tile under sample 15-02	Room 14	5% CH	160 SF	Misc. Cat I	NF	Good
17-02A	Black mastic under tile	Room 14	3% CH	4,000 SF*	Misc. Cat I	NF	Good
18-01	White ceiling tile	Room 17	NAD	N/A	N/A	NF	Good
18-02	White ceiling tile	Hallway adjacent Room 4	NAD	N/A	N/A	NF	Good
19-01	Plaster ceiling	Room 16	NAD	N/A	N/A	F	Moderate
19-02	Plaster ceiling	Room 10	NAD	N/A	N/A	F	Moderate
19-03	Plaster ceiling	Room 17	NAD	N/A	N/A	F	Moderate
20-01	Floor tile, white with blue marks	Room 4	NAD	N/A	N/A	NF	Good
20-02	Floor tile, white with blue marks	Room 4	NAD	N/A	N/A	NF	Good
21-01	Floor tile, gray with white marks	Room 19	NAD	N/A	N/A	NF	Good
21-02	Floor tile, gray with white marks	Room 20	NAD	N/A	N/A	NF	Good
21-02A	Black mastic under tile	Room 20	3% CH	4,000 SF*	Misc. Cat I	NF	Good
22-01	Floor tile, pinkish beige	Room 19	2% CH	300 SF	Misc. Cat I	NF	Good
22-01A	Black mastic under tile	Room 19	3% CH	4,000 SF*	Misc. Cat I	NF	Good
22-02	Floor tile, pinkish beige	Hallway adjacent Room 18	2% CH	300 SF	Misc. Cat I	NF	Good
22-02A	Black mastic under tile	Hallway adjacent Room 18	3% CH	4,000 SF*	Misc. Cat I	NF	Good
23-01	Black sink undercoating	Room 19	3% CH	1 sink	Misc. Cat II	NF	Good
23-02	Black sink undercoating	Room 19	3% CH	1 sink	Misc. Cat II	NF	Good
24-01	White sink undercoating	Room 26	NAD	N/A	N/A	NF	Good

STEWART ROAD ASSEMBLAGE
3760 PARK AVENUE
DORAVILLE, GEORGIA

Table 1a: Summary of Bulk Sample Analysis and Assessment

HA ID	HA Description	Material Location	Percent and Type of Asbestos Detected ¹	Estimated Quantity	Type of ACM ²	Friability ³	Physical Condition
24-02	White sink undercoating	Room 26	NAD	N/A	N/A	NF	Good
25-01	Floor tile, plain gray	Room 35	2% CH	1,400 SF	Misc. Cat I	NF	Good
25-01A	Black mastic under tile	Room 35	3% CH	4,000 SF*	Misc. Cat I	NF	Good
25-02	Floor tile, plain gray	Room 27	2% CH	1,400 SF	Misc. Cat I	NF	Good
25-02A	Black mastic under tile	Room 27	3% CH	4,000 SF*	Misc. Cat I	NF	Good

*Black mastic estimated in combination with all identified black mastic throughout building

Notes: (1) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = No Asbestos Detected

(2) Misc = Miscellaneous; TSI = Thermal System Insulation

(3) F = Friable; NF - Non friable. For ACMs only: I = Non-Friable Category I; II = Non-Friable Category II

NM - not measured

LF = linear feet

n/a - not applicable

SF = square feet

STEWART ROAD ASSEMBLAGE
3768 PARK AVENUE
DORAVILLE, GEORGIA

Table 1b: Summary of Bulk Sample Analysis and Assessment

HA ID	HA Description	Material Location	Percent and Type of Asbestos Detected ¹	Estimated Quantity	Type of ACM ²	Friability ³	Physical Condition
01-01	Siding exterior felt	Exterior	NAD	n/a	n/a	NF	Good
01-02	Siding exterior felt	Exterior	NAD	n/a	n/a	NF	Good
02-01	Window glazing	Exterior front window	NAD	n/a	n/a	NF	Good
02-02	Window glazing	Exterior side window	NAD	n/a	n/a	NF	Good
03-01	Roof shingles	Roof	NAD	n/a	n/a	NF	Good
03-02	Roof shingles	Roof	NAD	n/a	n/a	NF	Good
04-01	Roof felt	Roof	NAD	n/a	n/a	NF	Good
04-02	Roof felt	Roof	NAD	n/a	n/a	NF	Good
05-01	12"x12" floor tile, beige and brown	Front room	NAD	n/a	n/a	NF	Good
05-01A	Underlying black mastic	Front room	5% CH	1,000 SF	Misc. Cat. I	NF	Good
05-02	12"x12" floor tile, beige and brown	Office #2	NAD	n/a	n/a	NF	Good
05-02A	Underlying black mastic	Office #2	5% CH	1,000 SF	Misc. Cat. I	NF	Good
06-01	Ceiling tile, white, 2'x4'	Office #2	NAD	n/a	n/a	NF	Good
06-02	Ceiling tile, white, 2'x4'	Store room	NAD	n/a	n/a	NF	Good
07-01	Roof pipe mastic, black	Roof	15% CH	25 LF	Misc. Cat. I	NF	Good
07-02	Roof pipe mastic, black	Roof	15% CH	25 LF	Misc. Cat. I	NF	Good
08-01	Plaster on ceiling	Office #2	NAD	n/a	n/a	NF	Good
08-02	Plaster on ceiling	Store room	NAD	n/a	n/a	NF	Good
08-03	Plaster on ceiling	Front room	NAD	n/a	n/a	NF	Good
09-01	Exterior garage door caulking	Exterior back garage door	NAD	n/a	n/a	NF	Good
09-02	Exterior garage door caulking	Exterior back garage door	NAD	n/a	n/a	NF	Good

Notes: (1) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = No Asbestos Detected

(2) Misc = Miscellaneous; TSI = Thermal System Insulation

(3) F = Friable; NF = Non friable. For ACMs only: I = Non-Friable Category I; II = Non-Friable Category II

NM = not measured

LF = linear feet

n/a = not applicable

SF = square feet

STEWART ROAD ASSEMBLAGE
3760 PARK AVENUE
DORAVILLE, GEORGIA

Table 2b: Summary of Paint Chip Analysis and Assessment

Sample ID	Location	Color	Substrate	Percentage Lead	Estimated Quantity	Physical Condition
LBP-01	Exterior, roof, siding	Green	Wood	0.022%	n/a	Intact
LBP-02	Exterior, wall, roof	Beige	Concrete	BRL	n/a	Intact
LBP-03	Exterior, window	Beige	Wood	1.24%	100 SF	Intact
LBP-04	Exterior, front handrail	Black	Metal	BRL	n/a	Intact
LBP-05	Exterior, siding	Blue	Wood	0.15%	n/a	Intact
LBP-06	Exterior, window frame	Beige	Concrete	0.294%	n/a	Intact
LBP-07	Exterior, back stairs	Black	Metal	BRL	n/a	Intact
LBP-08	Exterior, door and door frame	Blue	Wood	1.48%	200 SF	Intact
LBP-09	Interior, Room 2, ceiling	White	Drywall	BRL	n/a	Intact
LBP-10	Interior, Room 5, door frame	White	Wood	0.35%	n/a	Intact
LBP-11	Interior, Room 4, ceiling	White	Wood	0.176%	n/a	Intact
LBP-12	Interior, window sill, Room 29	White	Wood	BRL	n/a	Intact
LBP-13	Interior, Room 33, door frame	White	Wood	BRL	n/a	Intact
LBP-14	Interior, Room 16, door	Beige	Wood	BRL	n/a	Intact

Notes: NM - not measured
n/a - not applicable

LF = linear feet
SF = square feet

BRL = Below Laboratory Reporting Limit

STEWART ROAD ASSEMBLAGE
3768 PARK AVENUE
DORAVILLE, GEORGIA

Table 2b: Summary of Paint Chip Analysis and Assessment

Sample ID	Location	Color	Substrate	Percentage Lead	Estimated Quantity	Physical Condition
LBP-01	Store Room, ceiling	White/green	Plaster	0.873%	1,100 SF	Intact
LBP-02	Exterior front banisters	White	Wood	0.179%	n/a	Intact
LBP-03	Exterior, front windows	White	Wood	0.641%	100 SF	Intact
LBP-04	Exterior, new shingles	Orange, red	Wood	0.053%	n/a	Intact
LBP-05	Exterior, original shingles	White	Wood	2.46%	1,500 SF	Poor
LBP-06	Front room windows	Brown	Wood	0.148%	n/a	Intact
LBP-07	Exterior, front porch ceiling	White	Wood	0.119%	n/a	Intact
LBP-08	Exterior, back garage door frame	White	Wood	BRL	n/a	Intact
LBP-09	Garage room, walling	White	Concrete blocks	BRL	n/a	Intact

Notes: NM - not measured
n/a - not applicable

LF = linear feet
SF = square feet

BRL = Below Laboratory Reporting Limit

Appendix A

Photographic Log

PHOTOGRAPHIC LOG



Client Name: City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
1

Date:
04/26/18

Direction Photo Taken:

Northwest

Description:

Vacant commercial building
at 3768 Park Avenue



Photo No.
2

Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample 07-01/02 and
confirmed ACM black
penetration pipe mastic on
the roof of commercial
building at 3768 Park
Avenue



PHOTOGRAPHIC LOG



Client Name: : City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
3

Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample 04-01 of confirmed
ACM black penetration pipe
mastic on roof of 3760 Park
Avenue



Photo No.
4

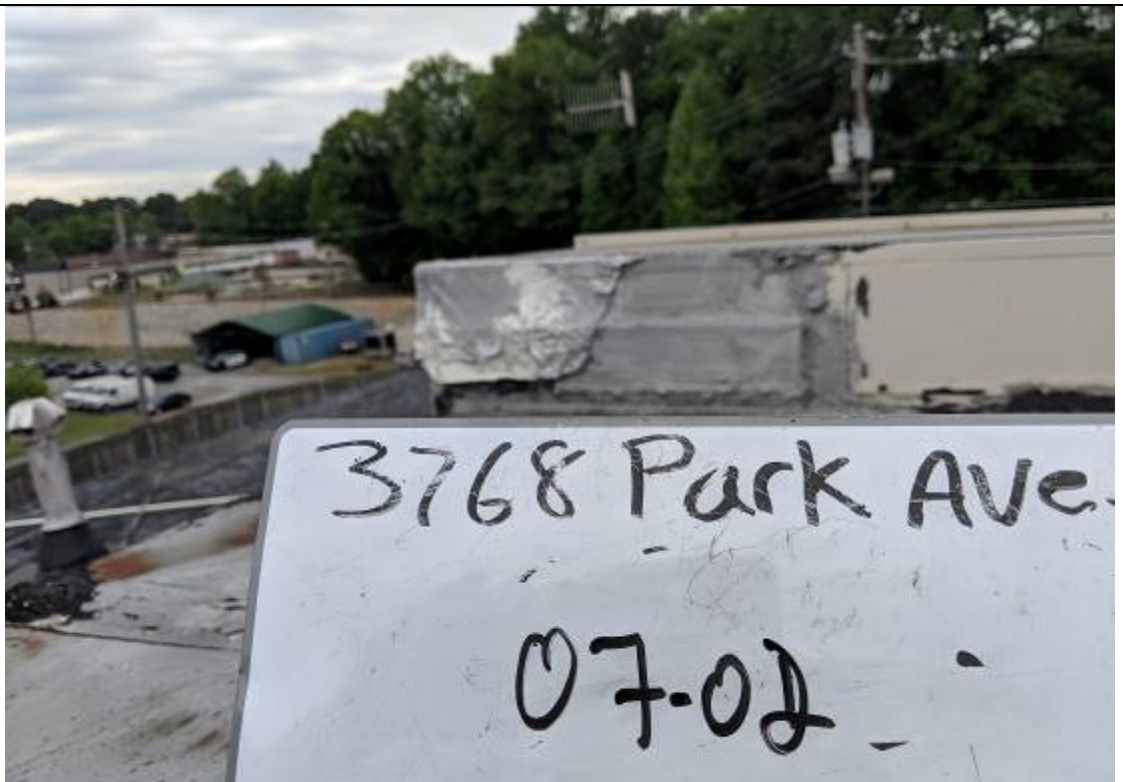
Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample 07-02 of confirmed
ACM silver HVAC mastic
on roof of 3760 Park
Avenue



PHOTOGRAPHIC LOG



Client Name: City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
5

Date:
04/26/18

Direction Photo Taken:

NA

Description:

Interior of 3678 Stewart Road with confirmed ACM floor tile and associated mastic.



Photo No.
6

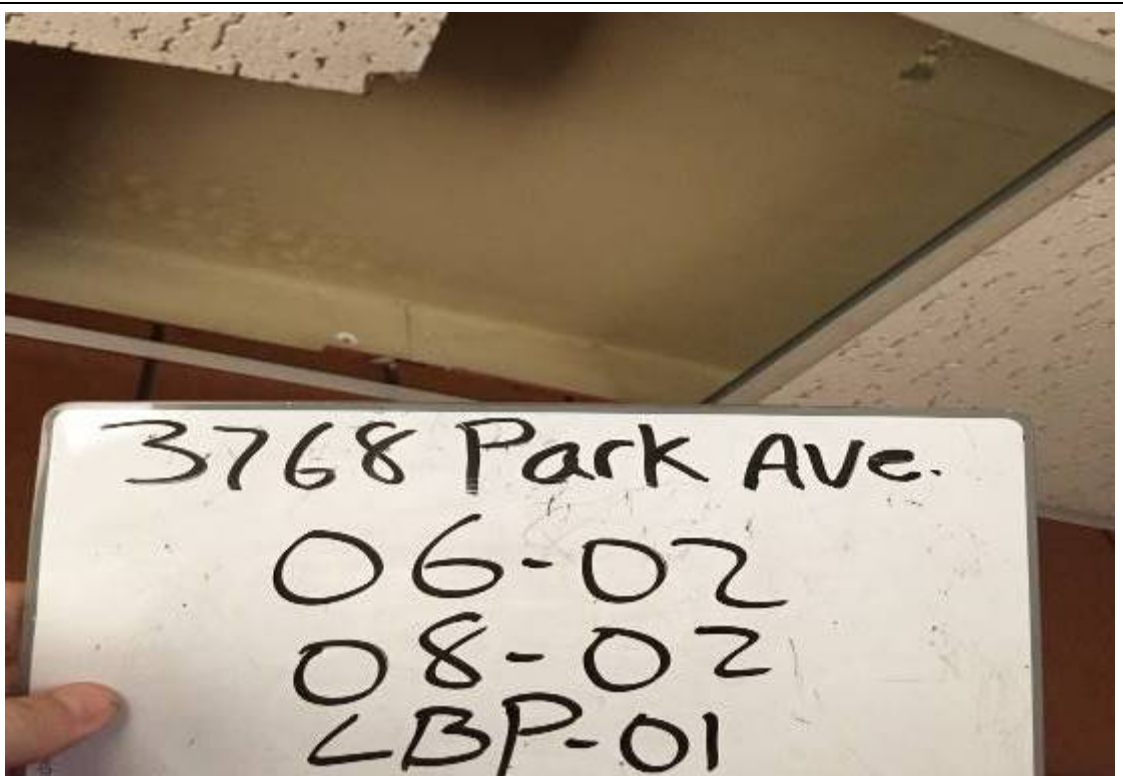
Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Samples 06-02, 08-02, and LBP-01 in the storage room of 3768 Park Avenue. Confirmed LBP on textured plaster ceiling.



PHOTOGRAPHIC LOG



Client Name: City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
7

Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample LBP-05 of confirmed LBP of white paint behind siding field on exterior of 3768 Park Avenue.

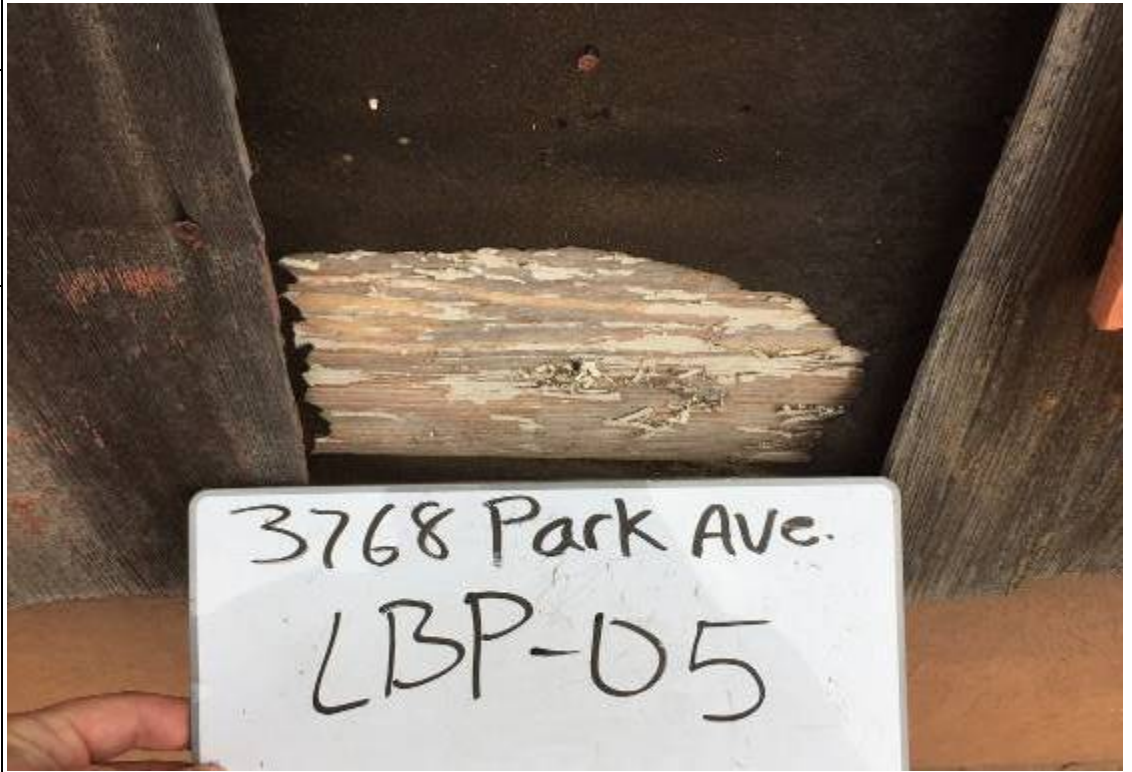


Photo No.
8

Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample 08-02 of confirmed ACM grey door caulk on the exterior of 3760 Park Avenue.



PHOTOGRAPHIC LOG



Client Name: City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
9

Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample 16-01 of ceramic tile with confirmed black mastic located in Room 12 of 3760 Park Avenue.



Photo No.
10

Date:
04/26/18

Direction Photo Taken:

Northwest

Description:

Samples 21-01 and 22-01 of confirmed ACM floor tile and associated black mastic in Room 19 and adjacent hallway in 3760 Park Avenue.



PHOTOGRAPHIC LOG



Client Name: City of Doraville
Downtown Development Authority

Site Location: 3760 & 3768 Park Avenue,
Doraville, GA 30340

Project No.
0002361500

Photo No.
11

Date:
04/26/18

Direction Photo Taken:

Northwest

Description:

Sample 25-01 of confirmed floor tile and associated mastic in 2nd floor of 3760 Park Avenue.



Photo No.
12

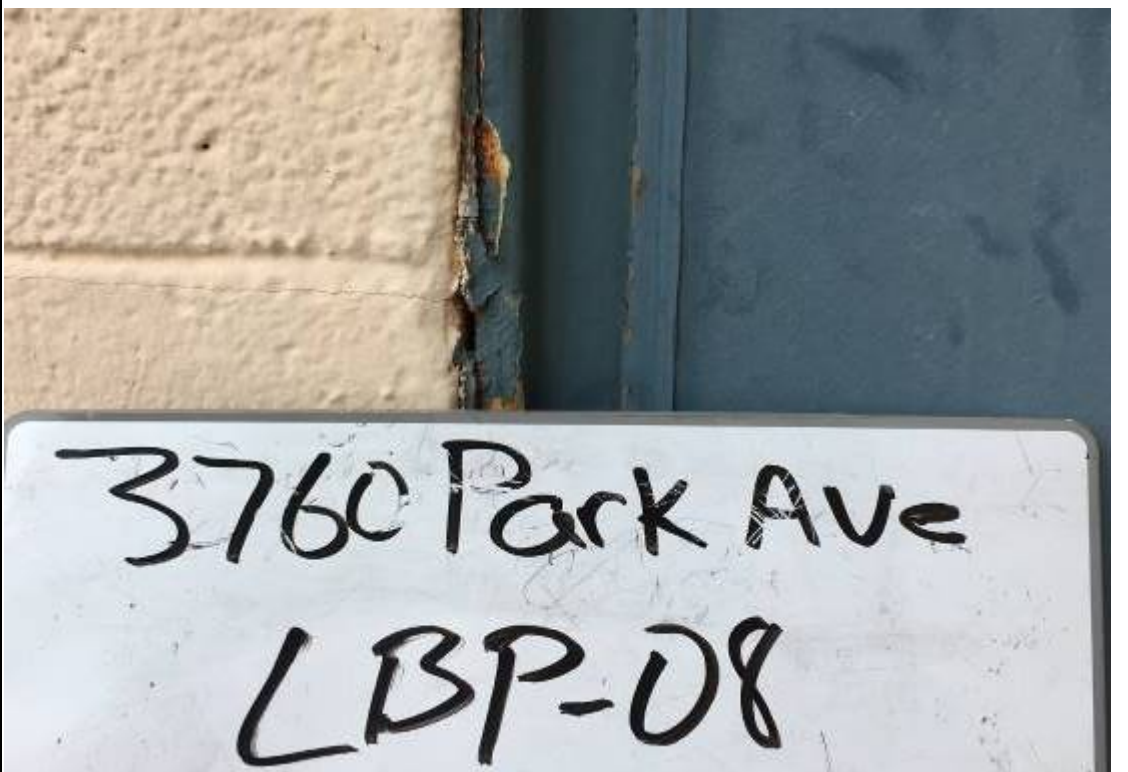
Date:
04/26/18

Direction Photo Taken:

N/A

Description:

Sample LBP-08 of confirmed LBP on blue doors on exterior of 3760 Park Avenue.



Appendix B

Laboratory Analytical Results



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 01, 2018

Douglas Strait
Cardno

2000 First Drive Suite 200
Marietta GA 30062

RE: 3768 Park

Dear Douglas Strait:

Order No: 1804P50

Analytical Environmental Services, Inc. received 9 samples on 4/26/2018 3:51:00 PM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager



Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1804P50

Date: 4/26/18 Page 1 of 1

[illegible]

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Lab Order: 1804P50

Client: Cardno

Project: 3768 Park

Matrix: Paint

Date Received: 4/26/2018 3:51:00 PM

TOTAL LEAD IN PAINT (NIOSH 7082)

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1804P50-001A	LBP-01	0.873	wt%	0.151	16.07		04/26/2018	05/01/2018	AS
1804P50-002A	LBP-02	0.179	wt%	0.00967	1		04/26/2018	05/01/2018	AS
1804P50-003A	LBP-03	0.641	wt%	0.119	12.35		04/26/2018	05/01/2018	AS
1804P50-004A	LBP-04	0.0534	wt%	0.0123	1		04/26/2018	05/01/2018	AS
1804P50-005A	LBP-05	2.46	wt%	0.396	19.46		04/26/2018	05/01/2018	AS
1804P50-006A	LBP-06	0.148	wt%	0.0518	1		04/26/2018	05/01/2018	AS
1804P50-007A	LBP-07	0.119	wt%	0.00962	1		04/26/2018	05/01/2018	AS
1804P50-008A	LBP-08	BRL	wt%	0.00997	1		04/26/2018	05/01/2018	AS
1804P50-009A	LBP-09	BRL	wt%	0.00967	1		04/26/2018	05/01/2018	AS

SAMPLE/COOLER RECEIPT CHECKLIST

[Clear](#)
[Save as](#)

1. Client Name: **Cardno**

AES Work Order Number: **1804P50**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature AMBIENT °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 4/27/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 4/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 4/27/18

Client: Cardno

Project Name: 3768 Park

Workorder: 1804P50

ANALYTICAL QC SUMMARY REPORT

BatchID: 259944

Sample ID: MB-259944	Client ID:					Units: wt%	Prep Date: 04/30/2018	Run No: 369186			
SampleType: MBLK	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082					BatchID: 259944	Analysis Date: 05/01/2018	Seq No: 8176294			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-259944	Client ID:					Units: wt%	Prep Date: 04/30/2018	Run No: 369186			
SampleType: LCS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082					BatchID: 259944	Analysis Date: 05/01/2018	Seq No: 8176295			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.6016 0.115 0.6010 100 80 120

Sample ID: 1804P50-009AMS	Client ID: LBP-09	Units: wt%	Prep Date: 04/30/2018	Run No: 369186							
SampleType: MS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 259944	Analysis Date: 05/01/2018	Seq No: 8176297							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.05267 0.00966 0.0483 0.005982 96.6 75 125

Sample ID: 1804P50-009AMSD	Client ID: LBP-09	Units: wt%			Prep Date: 04/30/2018	Run No: 369186					
SampleType: MSD	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 259944			Analysis Date: 05/01/2018	Seq No: 8176298					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.05322 0.00958 0.0479 0.005982 98.6 75 125 0.05267 1.04 25

End of Report



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

Work Order: 1824P29
Page 1 of 3

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: Cordia
Address: 2000 1st Dr., Ste 200
City, State, Zip: Marietta, GA 30090
Contact: Doug Strait
Sampler's Name: L
Report To: L

Phone: (770) 316-2466
Email: douglas.strait@cordia.com
Project Name: 3760 Park Ave
Project Number:
Sampling Date: 04/26/18
Invoice To: Doug Strait

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	01-01	Roof shingles	PLM	Stand	
2	01-02	L			
3	02-01	Roof felt			
4	02-02	L			
5	03-01	Roof HVAC mastic, black			
6	03-02	L			
7	04-01	Pentetration mastic, roof, black			
8	04-02	L			
9	05-01	Roof membrane			
10	05-02	L			
11	06-01	Roof felt under membrane			
12	06-02	L			
13	07-01	Silver HVAC mastic, roof			
14	07-02	L			
15	08-01	Gray ext. door caulk			
16	08-02	L			
17	09-01	Beige window caulk, ext.			
18	09-02	L			
19	10-01	Gray window caulk, ext.			
20	10-02	L			

Relinquished by: Douglas Strait
Received by:
Relinquished by:
Received by:

Date/Time: 4/26/18 15:58
Date/Time:
Date/Time:
Date/Time:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.

Lab Recipient: [Signature] Date/Time: 4/26/18 1551 Method of Shipment: Client



CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: _____
Address: _____
City, State, Zip: _____
Contact: _____
Sampler's Name: _____
Report To: _____

Phone: () _____
Email: _____
Project Name: _____
Project Number: _____
Sampling Date: _____
Invoice To: _____

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	11-01	Black window caulk, ext.	PLM	Stand	
2	11-02	↓			
3	12-01	Buschard mastic, beige			
4	12-02	↓			
5	13-01	White interior window glazing			
6	13-02	↓			
7	14-01	Drywall/joint compound			
8	14-02	↓			
9	14-03	↓			
10	14-04	↓			
11	14-05	↓			
12	14-06	↓			
13	14-07	↓			
14	15-01	Gray floor tile under carpet, 12x12			
15	15-02	↓			
16	16-01	Ceramic floor tile w/ mastic			
17	16-02	↓			
18	17-01	Floor tile under HA-15			
19	17-02	↓			
20	18-01	White ceiling tile			

Relinquished by: _____
Received by: _____
Relinquished by: _____
Received by: _____

Date/Time: 4/26/18 15:52
Date/Time: _____
Date/Time: _____
Date/Time: _____

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.

Lab Recipient: _____ Date/Time: 4/26/18 15:51 Method of Shipment: Client



CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: Same as Phone: ()
Address: Previous Email:
City, State, Zip: Project Name: Same
Contact: Project Number:
Sampler's Name: Sampling Date:
Report To: Invoice To:

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	18-02	White ceiling tile	PLM	Stand.	
2	19-01	plaster plaster, ceiling ceiling			
3	19-02	w/ texture			
4	19-03				
5	20-01	White floor tile, 12x12, w/ blue markings			
6	20-02				
7	21-01	Gray w/ white markings, floor tile, 12x12			
8	21-02				
9	22-01	Pinkish beige floor tile, 12x12			
10	22-02				
11	23-01	Sink undercoating, black			
12	23-02				
13	24-01	Sink undercoating, white			
14	24-02				
15	25-01	Plain gray 12x12 floor tile			
16	25-02				
17					
18					
19					
20					

Relinquished by: Douglas Stroup Date/Time: 4/26/13 15:50
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.

Lab Recipient: [Signature] Date/Time: 4/26/13 15:51 Method of Shipment: client



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

2-May-18

Client Name: **Cardno**

AES Job Number: **1804P29**

Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
01-01 Layer: 1	1804P29-001A	Roof Shingles	ND	ND	ND	ND	ND	ND	
01-01 Layer: 2	1804P29-001A	Roof Shingles	ND	ND	ND	ND	ND	ND	
01-02 Layer: 1	1804P29-002A	Roof Shingles	ND	ND	ND	ND	ND	ND	
02-01 Layer: 1	1804P29-003A	Roof Felt	ND	ND	ND	ND	ND	ND	
02-02 Layer: 1	1804P29-004A	Roof Felt	ND	ND	ND	ND	ND	ND	
03-01 Layer: 1	1804P29-005A	Roof HVAC Mastic, black	ND	ND	ND	ND	ND	ND	Black Mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
03-02 Layer: 1	1804P29-006A	Roof HVAC Mastic, black	ND	ND	ND	ND	ND	ND	Black Mastic
03-02 Layer: 2	1804P29-006A	Roof HVAC Mastic, black	ND	ND	ND	ND	ND	ND	
04-01 Layer: 1	1804P29-007A	Penetration Mastic, roof , black	3	ND	ND	ND	ND	ND	Silver paint
04-01 Layer: 2	1804P29-007A	Penetration Mastic, roof , black	ND	ND	ND	ND	ND	ND	Black material
04-02 Layer: 1	1804P29-008A	Penetration Mastic, roof , black	ND	ND	ND	ND	ND	ND	Black material
05-01 Layer: 1	1804P29-009A	Roof Membrane	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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ND = None Detected

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Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
05-02 Layer: 1	1804P29-010A	Roof Membrane	ND	ND	ND	ND	ND	ND	
06-01 Layer: 1	1804P29-011A	Roof Felt under Membrane	ND	ND	ND	ND	ND	ND	
06-01 Layer: 2	1804P29-011A	Roof Felt under Membrane	ND	ND	ND	ND	ND	ND	
06-02 Layer: 1	1804P29-012A	Roof Felt under Membrane	ND	ND	ND	ND	ND	ND	
06-02 Layer: 2	1804P29-012A	Roof Felt under Membrane	ND	ND	ND	ND	ND	ND	
07-01 Layer: 1	1804P29-013A	Silver HVAC Mastic Roof	10	ND	ND	ND	ND	ND	Tar silver. Paint included as binder

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Yelena Khanina

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.****Bulk Sample Summary Report**

Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
07-02 Layer: 1	1804P29-014A	Silver HVAC Mastic Roof	10	ND	ND	ND	ND	ND	Tar silver. Paint included as binder
08-01 Layer: 1	1804P29-015A	Gray Ext. Door caulk	ND	ND	ND	ND	ND	ND	Paint included as binder
08-02 Layer: 1	1804P29-016A	Gray Ext. Door caulk	5	ND	ND	ND	ND	ND	Paint included as binder
09-01 Layer: 1	1804P29-017A	Beige Window caulk, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
09-02 Layer: 1	1804P29-018A	Beige Window caulk, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
10-01 Layer: 1	1804P29-019A	Gray Window caulk, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder

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QC Analyst:

Yelena Khanina



Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
10-02 Layer: 1	1804P29-020A	Gray Window caulk, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
11-01 Layer: 1	1804P29-021A	Black Window Caulk, ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
11-02 Layer: 1	1804P29-022A	Black Window Caulk, ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
12-01 Layer: 1	1804P29-023A	Baseboard Mastic, Beige	ND	ND	ND	ND	ND	ND	Paint included as binder
12-02 Layer: 1	1804P29-024A	Baseboard Mastic, Beige	ND	ND	ND	ND	ND	ND	Paint included as binder
13-01 Layer: 1	1804P29-025A	White Interior window Glazing	ND	ND	ND	ND	ND	ND	Paint included as binder

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QC Analyst:

Yelena Khanina



Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
13-02 Layer: 1	1804P29-026A	White Interior window Glazing	ND	ND	ND	ND	ND	ND	Paint included as binder
14-01 Layer: 1	1804P29-027A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-01 Layer: 2	1804P29-027A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-01 Layer: 3	1804P29-027A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-02 Layer: 1	1804P29-028A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Skim coat. Paint included as binder
14-02 Layer: 2	1804P29-028A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Plaster

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Yelena Khanina



Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
14-03 Layer: 1	1804P29-029A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-03 Layer: 2	1804P29-029A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-03 Layer: 3	1804P29-029A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-04 Layer: 1	1804P29-030A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-04 Layer: 2	1804P29-030A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-04 Layer: 3	1804P29-030A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	

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Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
14-05 Layer: 1	1804P29-031A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-05 Layer: 2	1804P29-031A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-05 Layer: 3	1804P29-031A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-06 Layer: 1	1804P29-032A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-06 Layer: 2	1804P29-032A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-06 Layer: 3	1804P29-032A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	

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Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
14-07 Layer: 1	1804P29-033A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	Joint compound. Paint included as binder
14-07 Layer: 2	1804P29-033A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
14-07 Layer: 3	1804P29-033A	Drywall/Joint Compound	ND	ND	ND	ND	ND	ND	
15-01 Layer: 1	1804P29-034A	Gray floor Tile under Carpet 12x12	ND	ND	ND	ND	ND	ND	Glue
15-01 Layer: 2	1804P29-034A	Gray floor Tile under Carpet 12x12	ND	ND	ND	ND	ND	ND	Leveling compound
15-01 Layer: 3	1804P29-034A	Gray floor Tile under Carpet 12x12	2	ND	ND	ND	ND	ND	Floor tile

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Project Number:

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			CH	AM	CR	AN	TR	AC	
15-01 Layer: 4	1804P29-034A	Gray floor Tile under Carpet 12x12	ND	ND	ND	ND	ND	ND	Glue
15-02 Layer: 1	1804P29-035A	Gray floor Tile under Carpet 12x12	2	ND	ND	ND	ND	ND	Floor tile
15-02 Layer: 2	1804P29-035A	Gray floor Tile under Carpet 12x12	ND	ND	ND	ND	ND	ND	Glue
16-01 Layer: 1	1804P29-036A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Ceramic tile
16-01 Layer: 2	1804P29-036A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Grout
16-01 Layer: 3	1804P29-036A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Leveling compound

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Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16-01 Layer: 4	1804P29-036A	Ceramic flooring w/mastic	3	ND	ND	ND	ND	ND	Black Mastic
16-02 Layer: 1	1804P29-037A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Ceramic tile
16-02 Layer: 2	1804P29-037A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Grout
16-02 Layer: 3	1804P29-037A	Ceramic flooring w/mastic	ND	ND	ND	ND	ND	ND	Leveling compound
16-02 Layer: 4	1804P29-037A	Ceramic flooring w/mastic	3	ND	ND	ND	ND	ND	Black Mastic
17-01 Layer: 1	1804P29-038A	Floor Tile under HA-15	5	ND	ND	ND	ND	ND	Floor tile

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Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
17-01 Layer: 2	1804P29-038A	Floor Tile under HA-15	3	ND	ND	ND	ND	ND	Black Mastic
17-02 Layer: 1	1804P29-039A	Floor Tile under HA-15	5	ND	ND	ND	ND	ND	Floor tile
17-02 Layer: 2	1804P29-039A	Floor Tile under HA-15	3	ND	ND	ND	ND	ND	Black Mastic
18-01 Layer: 1	1804P29-040A	White Ceiling Tile	ND	ND	ND	ND	ND	ND	Paint included as binder
18-02 Layer: 1	1804P29-041A	White Ceiling Tile	ND	ND	ND	ND	ND	ND	Paint included as binder
19-01 Layer: 1	1804P29-042A	Plaster Ceiling w/texture	ND	ND	ND	ND	ND	ND	Paint included as binder

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Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
19-02 Layer: 1	1804P29-043A	Plaster Ceiling w/texture	ND	ND	ND	ND	ND	ND	Paint included as binder
19-03 Layer: 1	1804P29-044A	Plaster Ceiling w/texture	ND	ND	ND	ND	ND	ND	Paint included as binder
19-03 Layer: 2	1804P29-044A	Plaster Ceiling w/texture	ND	ND	ND	ND	ND	ND	
20-01 Layer: 1	1804P29-045A	White Floor Tile 12x12 w/blue Mastic	ND	ND	ND	ND	ND	ND	Floor tile
20-01 Layer: 2	1804P29-045A	White Floor Tile 12x12 w/blue Mastic	ND	ND	ND	ND	ND	ND	Glue
20-02 Layer: 1	1804P29-046A	White Floor Tile 12x12 w/blue Mastic	ND	ND	ND	ND	ND	ND	Floor tile

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Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21-01 Layer: 1	1804P29-047A	Gray w/white Mastic, floor Tile 12x12	ND	ND	ND	ND	ND	ND	Floor tile
21-01 Layer: 2	1804P29-047A	Gray w/white Mastic, floor Tile 12x12	ND	ND	ND	ND	ND	ND	Glue
21-02 Layer: 1	1804P29-048A	Gray w/white Mastic, floor Tile 12x12	ND	ND	ND	ND	ND	ND	Floor tile
21-02 Layer: 2	1804P29-048A	Gray w/white Mastic, floor Tile 12x12	ND	ND	ND	ND	ND	ND	Glue
21-02 Layer: 3	1804P29-048A	Gray w/white Mastic, floor Tile 12x12	3	ND	ND	ND	ND	ND	Black Mastic
21-02 Layer: 4	1804P29-048A	Gray w/white Mastic, floor Tile 12x12	ND	ND	ND	ND	ND	ND	Leveling compound

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

2-May-18

Client Name: **Cardno**

AES Job Number: **1804P29**

Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
22-01 Layer: 1	1804P29-049A	Pinkish Beige Floor tile 12x12	2	ND	ND	ND	ND	ND	Floor tile
22-01 Layer: 2	1804P29-049A	Pinkish Beige Floor tile 12x12	3	ND	ND	ND	ND	ND	Black Mastic
22-02 Layer: 1	1804P29-050A	Pinkish Beige Floor tile 12x12	2	ND	ND	ND	ND	ND	Floor tile
22-02 Layer: 2	1804P29-050A	Pinkish Beige Floor tile 12x12	3	ND	ND	ND	ND	ND	Black Mastic
23-01 Layer: 1	1804P29-051A	Sink Undercoating Black	3	ND	ND	ND	ND	ND	
23-02 Layer: 1	1804P29-052A	Sink Undercoating Black	3	ND	ND	ND	ND	ND	

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.****Bulk Sample Summary Report**

Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P29**Project Name: **3760 PARK AVE**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
24-01 Layer: 1	1804P29-053A	Sink Undercoating White	ND	ND	ND	ND	ND	ND	
24-02 Layer: 1	1804P29-054A	Sink Undercoating White	ND	ND	ND	ND	ND	ND	
25-01 Layer: 1	1804P29-055A	Plain Grey 12x12 floor tile	2	ND	ND	ND	ND	ND	Floor tile
25-01 Layer: 2	1804P29-055A	Plain Grey 12x12 floor tile	3	ND	ND	ND	ND	ND	Black Mastic
25-02 Layer: 1	1804P29-056A	Plain Grey 12x12 floor tile	2	ND	ND	ND	ND	ND	Floor tile
25-02 Layer: 2	1804P29-056A	Plain Grey 12x12 floor tile	3	ND	ND	ND	ND	ND	Black Mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 01, 2018

Douglas Strait
Cardno

2000 First Drive Suite 200
Marietta GA 30062

RE: 3768 Park

Dear Douglas Strait:

Order No: 1804P50

Analytical Environmental Services, Inc. received 9 samples on 4/26/2018 3:51:00 PM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager



Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1804P50

Date: 4/26/18 Page 1 of 1

[illegible]

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Lab Order: 1804P50

Client: Cardno

Project: 3768 Park

Matrix: Paint

Date Received: 4/26/2018 3:51:00 PM

TOTAL LEAD IN PAINT (NIOSH 7082)

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1804P50-001A	LBP-01	0.873	wt%	0.151	16.07		04/26/2018	05/01/2018	AS
1804P50-002A	LBP-02	0.179	wt%	0.00967	1		04/26/2018	05/01/2018	AS
1804P50-003A	LBP-03	0.641	wt%	0.119	12.35		04/26/2018	05/01/2018	AS
1804P50-004A	LBP-04	0.0534	wt%	0.0123	1		04/26/2018	05/01/2018	AS
1804P50-005A	LBP-05	2.46	wt%	0.396	19.46		04/26/2018	05/01/2018	AS
1804P50-006A	LBP-06	0.148	wt%	0.0518	1		04/26/2018	05/01/2018	AS
1804P50-007A	LBP-07	0.119	wt%	0.00962	1		04/26/2018	05/01/2018	AS
1804P50-008A	LBP-08	BRL	wt%	0.00997	1		04/26/2018	05/01/2018	AS
1804P50-009A	LBP-09	BRL	wt%	0.00967	1		04/26/2018	05/01/2018	AS

SAMPLE/COOLER RECEIPT CHECKLIST

[Clear](#)
[Save as](#)

1. Client Name: **Cardno**

AES Work Order Number: **1804P50**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature AMBIENT °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 4/27/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 4/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 4/27/18

Client: Cardno
Project Name: 3768 Park
Workorder: 1804P50

ANALYTICAL QC SUMMARY REPORT
BatchID: 259944

Sample ID: MB-259944	Client ID:					Units: wt%	Prep Date: 04/30/2018	Run No: 369186			
SampleType: MBLK	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082					BatchID: 259944	Analysis Date: 05/01/2018	Seq No: 8176294			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-259944	Client ID:	Units: wt%				Prep Date: 04/30/2018	Run No: 369186				
SampleType: LCS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 259944				Analysis Date: 05/01/2018	Seq No: 8176295				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.6016 0.115 0.6010 100 80 120

Sample ID: 1804P50-009AMS	Client ID: LBP-09	Units: wt%			Prep Date: 04/30/2018	Run No: 369186					
SampleType: MS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 259944			Analysis Date: 05/01/2018	Seq No: 8176297					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.05267 0.00966 0.0483 0.005982 96.6 75 125

Sample ID: 1804P50-009AMSD	Client ID: LBP-09	Units: wt%			Prep Date: 04/30/2018	Run No: 369186					
SampleType: MSD	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 259944			Analysis Date: 05/01/2018	Seq No: 8176298					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.05322 0.00958 0.0479 0.005982 98.6 75 125 0.05267 1.04 25

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

End of Report



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

3080 Presidential Drive Atlanta, GA 30340-3704

Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

Work Order: 1502/P28

Page 1 of 1

CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS

Client Name: Cordino
Address: 200 1st. Dr., Ste 200
City, State, Zip: Marietta GA 30090
Contact: Doug Strick
Sampler's Name: I
Report To:

Phone: (770) 316-2466
Email: doug.strick@cordino.com
Project Name: 3769 Park
Project Number:
Sampling Date: 4/26/13
Invoice To: Douglas Strick@cordino.com

	Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time (TAT)	Comments
1	01-01	Siding ext. felt	PLM	Stand.	
2	01-02	I			
3	02-01	Window glazing, ext.			
4	02-02	I			
5	03-01	Roof shingles			
6	03-02	I			
7	04-01	Roof felt			
8	04-02	I			
9	05-01	12x12 floor tile, beige w/ brown marbles			
10	05-02	I			
11	06-01	ceiling tile, 2x4, white w/ pinholes			
12	06-02	I			
13	07-01	Roof pipe mastik, black			
14	07-02	I			
15	08-01	Wall/ceiling plaster			
16	08-02	I			
17	08-03	I			
18	09-01	Garage frame caulking, grey, ext			
19	09-02	I			
20					

Relinquished by: Douglas Strick
Received by:
Relinquished by:
Received by:

Date/Time: 4/26/13 15:52
Date/Time:
Date/Time:
Date/Time:

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT.

Lab Recipient:

Date/Time:

FOR LAB USE ONLY

4/26/13 1551

Method of Shipment:

client

Page 1 of 6



ANALYTICAL ENVIRONMENTAL SERVICES, INC.
Bulk Sample Summary Report



Lab Code 102082-0

2-May-18

Client Name: **Cardno**

AES Job Number: **1804P28**

Project Name: **3768 PARK**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
01-01 Layer: 1	1804P28-001A	Siding Ext. Felt	ND	ND	ND	ND	ND	ND	
01-02 Layer: 1	1804P28-002A	Siding Ext. Felt	ND	ND	ND	ND	ND	ND	
02-01 Layer: 1	1804P28-003A	Window Glazing, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
02-02 Layer: 1	1804P28-004A	Window Glazing, Ext.	ND	ND	ND	ND	ND	ND	Paint included as binder
03-01 Layer: 1	1804P28-005A	Roof shingles	ND	ND	ND	ND	ND	ND	
03-02 Layer: 1	1804P28-006A	Roof shingles	ND	ND	ND	ND	ND	ND	

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ND = None Detected

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Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.****Bulk Sample Summary Report**

Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P28**Project Name: **3768 PARK**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
04-01 Layer: 1	1804P28-007A	Roof Felt	ND	ND	ND	ND	ND	ND	
04-02 Layer: 1	1804P28-008A	Roof Felt	ND	ND	ND	ND	ND	ND	
05-01 Layer: 1	1804P28-009A	12x12 Floor Tile, Beige w/Brown mastic	ND	ND	ND	ND	ND	ND	Floor tile
05-01 Layer: 2	1804P28-009A	12x12 Floor Tile, Beige w/Brown mastic	5	ND	ND	ND	ND	ND	Black Mastic
05-01 Layer: 3	1804P28-009A	12x12 Floor Tile, Beige w/Brown mastic	ND	ND	ND	ND	ND	ND	Brown leveling compound
05-02 Layer: 1	1804P28-010A	12x12 Floor Tile, Beige w/Brown mastic	ND	ND	ND	ND	ND	ND	Floor tile

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Svetlana Arkhipov

QC Analyst:

Yelena Khanina

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.****Bulk Sample Summary Report**

Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P28**Project Name: **3768 PARK**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
05-02 Layer: 2	1804P28-010A	12x12 Floor Tile, Beige w/Brown mastic	5	ND	ND	ND	ND	ND	Black Mastic
06-01 Layer: 1	1804P28-011A	Ceiling Tile 2x4 White w/Pinhole	ND	ND	ND	ND	ND	ND	Paint included as binder
06-02 Layer: 1	1804P28-012A	Ceiling Tile 2x4 White w/Pinhole	ND	ND	ND	ND	ND	ND	Paint included as binder
07-01 Layer: 1	1804P28-013A	Roof Pipe Mastic, Black	15	ND	ND	ND	ND	ND	
07-02 Layer: 1	1804P28-014A	Roof Pipe Mastic, Black	15	ND	ND	ND	ND	ND	
08-01 Layer: 1	1804P28-015A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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ND = None Detected

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Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina



Bulk Sample Summary Report

Client Name: **Cardno**AES Job Number: **1804P28**Project Name: **3768 PARK**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
08-01 Layer: 2	1804P28-015A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	
08-02 Layer: 1	1804P28-016A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	Paint included as binder
08-02 Layer: 2	1804P28-016A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	
08-03 Layer: 1	1804P28-017A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	Paint included as binder
08-03 Layer: 2	1804P28-017A	Wall Ceiling Plaster	ND	ND	ND	ND	ND	ND	
09-01 Layer: 1	1804P28-018A	Garage Frame Caulking Grey Ext	ND	ND	ND	ND	ND	ND	Paint included as binder

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ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina

**ANALYTICAL ENVIRONMENTAL SERVICES, INC.****Bulk Sample Summary Report**

Lab Code 102082-0

2-May-18

Client Name: **Cardno**AES Job Number: **1804P28**Project Name: **3768 PARK**

Project Number:

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
09-01 Layer: 2	1804P28-018A	Garage Frame Caulking Grey Ext	ND	ND	ND	ND	ND	ND	
09-02 Layer: 1	1804P28-019A	Garage Frame Caulking Grey Ext	ND	ND	ND	ND	ND	ND	Paint included as binder
09-02 Layer: 2	1804P28-019A	Garage Frame Caulking Grey Ext	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:

Svetlana Arkhipov

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 03, 2018

Douglas Strait
Cardno

2000 First Drive Suite 200
Marietta GA 30062

RE: 3760 Park

Dear Douglas Strait:

Order No: 1804P51

Analytical Environmental Services, Inc. received 14 samples on 4/26/2018 3:51:00 PM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar
Project Manager



Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

Work Order: 180495

Date: 4/26/19 Page 1 of 1

COMPANY:		ADDRESS:		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers															
PHONE:		EMAIL:		PRESERVATION (see codes)																													
SAMPLED BY:		SIGNATURE:		SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	REMARKS																								
#	SAMPLE ID	DATE	TIME	DATE	TIME				DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME													
1	LBP-01	4/26/18	NA	X																													
2	LBP-02																																
3	LBP-03																																
4	LBP-04																																
5	LBP-05																																
6	LBP-06																																
7	LBP-07																																
8	LBP-08																																
9	LBP-09																																
10	LBP-10																																
11	LBP-11																																
12	LBP-12																																
13	LBP-13																																
14	LBP-14																																
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION												RECEIPT													
1. Douglas Stark		4/26/18 15:51		1. [Signature]		4/26/18 15:51		PROJECT NAME: 3760 Pank												Total # of Containers 14													
2.				2.				PROJECT #: 3760 Pank Avenue												Turnaround Time (TAT) Request													
3.				3.				SITE ADDRESS: 3760 Pank Avenue												<input checked="" type="checkbox"/> Standard 5 Business Days													
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		OUT: / / VIA: / /		SEND REPORT TO: douglas.stark@cordno.com												<input type="checkbox"/> 2 Business Day Rush													
																				INVOICE TO: (IF DIFFERENT FROM ABOVE)												<input type="checkbox"/> Next Business Day Rush	
																																QUOTE #: PO#:	
client FedEx UPS US mail courier Greyhound other:												<input type="checkbox"/> Other																					
												STATE PROGRAM (if any):												E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>									
DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																																	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 2 of 7

White Copy - Original; Yellow Copy - Client

Client: Cardno
Project: 3760 Park
Lab ID: 1804P51

Case Narrative

Lead in Paint Analysis by Method NIOSH 7082:

For samples 1804P51-002A, -004A, -007A, -012A, and -013A, which were submitted with less than 0.100g of material for analysis, values are reported with elevated reporting limits.

Lab Order: 1804P51

Client: Cardno

Project: 3760 Park

Matrix: Paint

Date Received: 4/26/2018 3:51:00 PM

TOTAL LEAD IN PAINT (NIOSH 7082)

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1804P51-001A	LBP-01	0.0215	wt%	0.00963	1		04/27/2018	05/03/2018	AS
1804P51-002A	LBP-02	BRL	wt%	0.0141	1		04/27/2018	05/03/2018	AS
1804P51-003A	LBP-03	1.24	wt%	0.196	20.97		04/27/2018	05/03/2018	AS
1804P51-004A	LBP-04	BRL	wt%	0.244	1		04/27/2018	05/03/2018	AS
1804P51-005A	LBP-05	0.150	wt%	0.00965	1		04/27/2018	05/03/2018	AS
1804P51-006A	LBP-06	0.294	wt%	0.00907	1		04/27/2018	05/03/2018	AS
1804P51-007A	LBP-07	BRL	wt%	0.0124	1		04/27/2018	05/03/2018	AS
1804P51-008A	LBP-08	1.48	wt%	0.221	22.69		04/27/2018	05/03/2018	AS
1804P51-009A	LBP-09	BRL	wt%	0.00951	1		04/27/2018	05/03/2018	AS
1804P51-010A	LBP-10	0.350	wt%	0.00949	1		04/26/2018	05/03/2018	AS
1804P51-011A	LBP-11	0.176	wt%	0.00955	1		04/26/2018	05/03/2018	AS
1804P51-012A	LBP-12	BRL	wt%	0.0230	1		04/26/2018	05/03/2018	AS
1804P51-013A	LBP-13	BRL	wt%	0.0242	1		04/26/2018	05/03/2018	AS
1804P51-014A	LBP-14	BRL	wt%	0.00897	1		04/26/2018	05/03/2018	AS

SAMPLE/COOLER RECEIPT CHECKLIST

[Clear](#)
[Save as](#)

1. Client Name: **Cardno**

AES Work Order Number: **1804P51**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature AMBIENT °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 4/27/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 4/27/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 4/27/18

Client: Cardno
Project Name: 3760 Park
Workorder: 1804P51

ANALYTICAL QC SUMMARY REPORT
BatchID: 260046

Sample ID: MB-260046	Client ID:					Units: wt%	Prep Date: 05/03/2018	Run No: 369417			
SampleType: MBLK	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082					BatchID: 260046	Analysis Date: 05/03/2018	Seq No: 8183171			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0100

Sample ID: LCS-260046	Client ID:					Units: wt%	Prep Date: 05/03/2018	Run No: 369417			
SampleType: LCS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082					BatchID: 260046	Analysis Date: 05/03/2018	Seq No: 8183172			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.5990 0.113 0.6010 99.7 80 120

Sample ID: 1804P51-009AMS	Client ID: LBP-09	Units: wt%	Prep Date: 05/03/2018	Run No: 369417							
SampleType: MS	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 260046	Analysis Date: 05/03/2018	Seq No: 8183183							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.04964 0.00959 0.0479 104 75 125

Sample ID: 1804P51-009AMSD	Client ID: LBP-09	Units: wt%			Prep Date: 05/03/2018	Run No: 369417					
SampleType: MSD	TestCode: TOTAL LEAD IN PAINT by NIOSH 7082	BatchID: 260046			Analysis Date: 05/03/2018	Seq No: 8183184					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 0.04835 0.00957 0.0479 101 75 125 0.04964 2.62 25

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

End of Report

Appendix C

Inspector Accreditations

The Environmental Institute

Doulgas Strait

Social Security Number - XXX-XX-5105

Logic Environmental - 3400 McClure Bridge Road, Suite F602 - Duluth, Georgia 30096

Has completed coursework and satisfactorily passed the hands-on skills assessment and an examination that meets training criteria in accordance with requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities as regulated by Georgia DNR/EPD Chapter 391-3-24 and U. S. EPA TSCA 40 CFR Part 745 for the refresher course titled

Lead Inspector Refresher

February 9, 2017

Course Date

1764

Certificate Number

February 9, 2017

Examination Date

February 8, 2019

Georgia Expiration Date

February 8, 2020

EPA Expiration Date



Bonnie B. Maurras - Principal Instructor

David W. Hogue - Training Manager

(Approved by the ABIH Certification Maintenance Committee for 1 CM point - Approval #11-584)
TEI - 1841 West Oak Parkway, Suite F - Marietta, GA 30062 - (770) 427-3600 - www.tei-atl.com
(State of Georgia Accredited - Certification No. 20-0799-006SR - September 21, 1999)

Asbestos Consulting & Training Systems

41493.444CERT/BIR

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7208

***This is to Certify that
Douglas R. Strait***



3400 McClure Bridge Rd. , Duluth, GA 30096

***has successfully completed an English
Asbestos Building Inspection Refresher***

8-Aug-17

TO

8-Aug-17

Meets state requirements of FL49-0001020/CN-0006273 and UT (6.0 core).

NDAAC Provider #451

Trainer(s): James F. Stump

Training Address: 5891 New Peachtree Rd. Ste. 122 Doraville, GA. 30040

Successful course completion based on exam score on: 08/08/17

This Certificate Expires:

8-Aug-18



Processed By:

Seagull

To Authenticate Certificate

www.seagulltraining.com

1-800-966-9933

UNDER CIVIL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR
SUBMISSION OF FALSE OR FRAUDULENT STATEMENTS OR
REPRESENTATIONS (18 U.S.C. 1001 AND 15 U.S.C. 2015), I CERTIFY
THAT THIS TRAINING COMPLIES WITH ALL APPLICABLE
REQUIREMENTS OF TITLE IV OF THE "TOXIC SUBSTANCE CONTROL
ACT" AND PART 745 OF THE "FEDERAL TOXIC SUBSTANCE CONTROL
ACT" AND ANY OTHER APPLICABLE
FEDERAL, STATE, OR LOCAL REQUIREMENTS.

James F. Stump, Course Sponsor

Certificate Number:



Course Number: GE1732